

Serial No. 09/862,910

REMARKS

By this amendment, claims 7, 9, 10 and 13 are pending. Claims 7 and 10 are in independent form.

The rejections to claims 7, 9, 10, and 13 under §103 all rely upon the combination of the admitted prior art (APA) and Litton, which may not be properly combined. There is no suggestion or motivation for one of ordinary skill in the art to modify APA with what is taught in Litton. The fact that the references each generally deal with cooling is not sufficient to satisfy this requirement. The problem in APA is that a large portion of the electromechanical device, including structural members, must be constructed from stainless steel where in contact with cooling medium, which is very expensive. Litton is directed to improved cooling of a vacuum tube anode to maintain the liquid state of the cooling medium. To accomplish this, Litton discloses the use of a combination of three cooling means: 1) fins, 2) a cooling tube around the fins, and 3) spraying water over the fins. The Examiner fails to present an argument as to why one of ordinary skill in the art would modify APA with Litton in the face of their unrelated problems and purposes. "Improved heat transfer" is an insufficient motivation for making the specific modification needed because it is not apparent to one of ordinary skill how the amount of stainless steel from APA could be reduced. Accordingly, the pending claims are allowable.

Claim 13 is allowable for the additional reason that a brazed joint is not disclosed in the references. Schade only discloses soldering, which is not brazing nor is it equivalent. Solder and braze do not consist of the same materials, nor are joining methods that may be interchanged with one another.

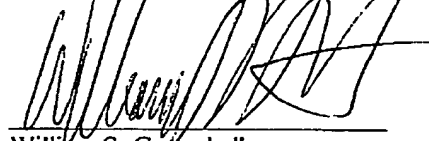
Applicant request that the Examiner initial and return the 1449 mailed on October 8, 2002. The pending claims are allowable over the references cited therein.

Serial No. 09/862,910

For the reasons set forth above, Applicant submits that the pending claims in the application are allowable. Applicant respectfully solicits allowance of these claims.

Respectfully submitted,

CARLSON, GASKEY & OLDS



William S. Gottschalk
Registration No. 44,130
400 W. Maple, Suite 350
Birmingham, MI 48009
(248) 988-8360

Dated: 12/4/02

Serial No. 09/862,910

Version with markings to show changes made

IN THE CLAIMS:

13. (Amended) The assembly according to claim 7, wherein said mechanical fastening element is a brazed joint connecting said coils to said [shell] wall.

PTO/SB/97 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the
United States Patent and Trademark Office

December 9, 2002
on _____

09/862,910

Date



Signature

William S. Gottschalk

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of transmission, or this certificate must identify
each submitted paper.

(703) 872-9303

Burden Hour Statement: This form is estimated to take 0.03 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.